

ENGLISH TRANSLATION OF THE INTERNATIONAL APPLICATION
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Claims

1. Method having the following steps for recognizing a sensor type:
 - a first condition is checked that will have been met if a measuring signal (V_SENS) of a sensor (1) exceeds a first threshold (V_SW),
 - a second condition will be checked if the first has been met, with the second condition having been met if a gradient (GRD_V_SENS) of the measuring signal (V_SENS) is greater in amount than a predefined second threshold (GRD_V_SW),
 - if the first and second condition have been met, then a sensor (4) having a signal-value-range multiplex output for the measuring signal (V_SENS) will be recognized,
 - and if at least one of the conditions has not been met, then a sensor (2) not having a signal-value-range multiplex output for the measuring signal (V_SENS) will be recognized.
2. Method according to claim 1
wherein the first and second condition are in each case checked close in time to a start of operation of the sensor (1).
3. Method according to one of the preceding claims
wherein the sensor (4) having the signal-value-range multiplex output for the measuring signal (V_SENS) will be recognized if the first and second condition have been met a predefined number of times, and otherwise the sensor (2)

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not having a signal-value-range multiplex output for the measuring signal (V_SENS).

4. Method according to one of the preceding claims wherein the following steps are carried out in the case of a recognized sensor (4) having a signal-value-range multiplex output:
 - the first and, dependent thereon, the second condition are checked,
 - a measurement value of the measuring signal (V_SENS), which value was registered a predefinable period of time before the first and second condition were met, will be assigned to either a first or a second measured variable, and as a function, moreover, of the sign of the gradient (GRD_V_SENS) of the measuring signal (V_SENS) or as a function of the measurement value's absolute value.
5. Method according to claim 4 wherein a fault will be recognized if the first and second condition are not met during a predefinable period of time.